SS-ASR-B22

Miniature Audio Surveillance Recorder

The SS-ASR-B22 is a high capacity covert digital recorder with low power consumption, making it one of the most compact and effective covert audio recorders available.

Key Features

- Very small size (the size of a large Postage stamp)
- 2GByte – 8GByte flash memory capacity, giving up to 1706 hours continuous recording time
- Low power consumption
- Built-in internal high-sensitivity microphone & battery holder – no external components
- Metal casing & solid-state internal components provides a rugged product ideal for harsh environments
- Recording activated/deactivated by a simple switch on the side of the recorder
- 4 different recording modes: voice activation, single–pass recording, endless-loop recording, and scheduled timer mode
- Recordings saved to PC as standard *.wav files via USB. Intuitive software provided
- 10 bit A/D resolution with configurable compression & bit rate settings
- All files are time and date stamped allowing easy cataloguing

Battery life in full record mode:
up to 24 hours

Battery life in VAS record mode
up to 70 hours

Battery life in standby mode:
up to 3 months

Scenario 1

You need to record a conversation in a target's house without being detected. The very small size of the SS-ASR-B22 makes the covert deployment of the recorder easier and more effective than many competitive products

Scenario 2

A room must not be entered after the recording device is deployed. The industry-leading capacity/size ratio of the SS-ASR-B22 used in Voice Activation mode, and the low power consumption, gives a 70 hour recording capability off a single battery charge

Scenario 3

In an operational environment, you do not always have the luxury of time and comfort. The SS-ASR-B22's rugged solid-state design means rough handling is not an issue

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SS-ASR-B22

Control and Download Interface
USB: 1.1
Connector: Mini-USB (Type-B)

Dimensions
31mm x 25mm x 6mm

Weight
13g

Frequency Response
300HZ – 10kHz

A/D Conversion
10-bit resolution

Sampling Rates (Selectable)
22kHz, 16kHz, 11kHz, 8kHz, 5.5kHz

Signal to Noise Ratio
-64dB

MicrophoneSensitivity
7 – 9 Metres (typical range)

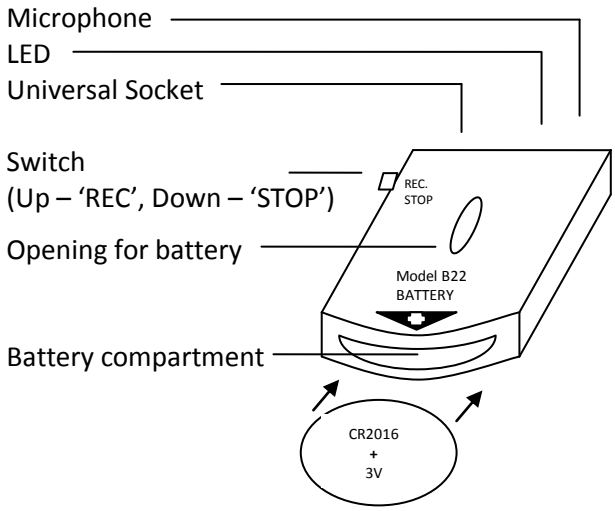
Status Indication
LED

Battery
Lithium CR 2016 (3V)

Power Consumption
5mA (maximum)

Operating Temperature
Operating Temperature: 0°C to 40°C

Recording Capacity (Longest Play Quality Setting)
Modified 2 bit ADPCM, 5.5kHz sample-rate
B22-2048 (2GByte) 426 hours
B22-4096 (4GByte) 853 hours
B22-8192 (8GByte) 1706 hours



Recording Bitrate/Compression

No compression:
Sample rate 22 kHz: bit-rate = 220 Kbit/s
Sample rate 16 kHz: bit-rate = 160 Kbit/s
Sample rate 11 kHz: bit-rate = 110 Kbit/s
Sample rate 8 kHz: bit-rate = 80 Kbit/s
Sample rate 5.5 kHz: bit-rate = 55 Kbit/s

Logarithmic Compression (µ-Law):
Sample rate 22 kHz: bit-rate = 176 Kbit/s
Sample rate 16 kHz: bit-rate = 128 Kbit/s
Sample rate 11 kHz: bit-rate = 88 Kbit/s
Sample rate 8 kHz: bit-rate = 64 Kbit/s
Sample rate 5.5 kHz: bit-rate = 44 Kbit/s

Modified 4 bit ADPCM:
Sample rate 22 kHz: bit-rate = 88 Kbit/s
Sample rate 16 kHz: bit-rate = 64 Kbit/s
Sample rate 11 kHz: bit-rate = 44 Kbit/s
Sample rate 8 kHz: bit-rate = 32 Kbit/s
Sample rate 5.5 kHz: bit-rate = 22 Kbit/s

Modified 2 bit ADPCM:
Sample rate 22 kHz: bit-rate = 44 Kbit/s
Sample rate 16 kHz: bit-rate = 32 Kbit/s
Sample rate 11 kHz: bit-rate = 22 Kbit/s
Sample rate 8 kHz: bit-rate = 16 Kbit/s
Sample rate 5.5 kHz: bit-rate = 11 Kbit/s

Minimum System Configuration
Pentium™ 500MHz processor, 256MB RAM, 20MB HDD; 800 x 600 (65536 colour) graphics, USB Port, Windows XP Professional™

Windows is a registered trademark of Microsoft Corp. Pentium is a registered trademark of Intel Corp.

Sample Rate	Estimated Battery Life			
	Modified 2-bit-ADPCM	Modified 4-bit ADPCM	Logarithmic 8-bit µLaw	Linear 16-bit uncompressed
22 kHz	9 hours	9 hours	10 hours	14 hours
16 kHz	12 hours	11 hours	13 hours	14 hours
11 kHz	16 hours	15 hours	17 hours	18 hours
8 kHz	19 hours	17 hours	21 hours	24 hours
5.5 kHz	24 hours	23 hours	27 hours	27 hours

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